

APPLICATIONS

- INJECTION MOLDING MACHINES
- PRINTING PRESSES
- MEAT PACKING EQUIPMENT
- WEATHER INSTRUMENTS
- DRILL PRESSES
- WOODWORKING MACHINES
- CRANES
- FRONT-END LOADERS
- SCALES
- SEMI CONDUCTOR PROCESSING

SHORT LONGFELLOW METRIC SERIES • LINEAR POSITION TRANSDUCER

The Short Longfellow is frequently used for measuring linear position or displacement up to 152mm on a wide variety of manufacturing and process equipment. The mechanical design of the unit's front and rear bearings, anodized extruded aluminum housing, stainless steel shaft and precious metal wipers are suitable for a factory's harsh environment.

Based on the proprietary MystR® conductive plastic film, it provides a high resolution, absolute position measurement without external signal conditioners.

Intrinsically Safe for Class I, II, and III Division 1, Groups A, B, C, D, E, F and G for Hazardous (indoor/outdoor) NEMA 4 locations.
 $V_{max} = 30\text{ V}$, $I_{max} = 100\text{ mA}$, $C_i = 0, \mu\text{F}$, $L_i = 0\text{ mH}$.



SHORT LONGFELLOW METRIC SERIES LINEAR POSITION TRANSDUCER

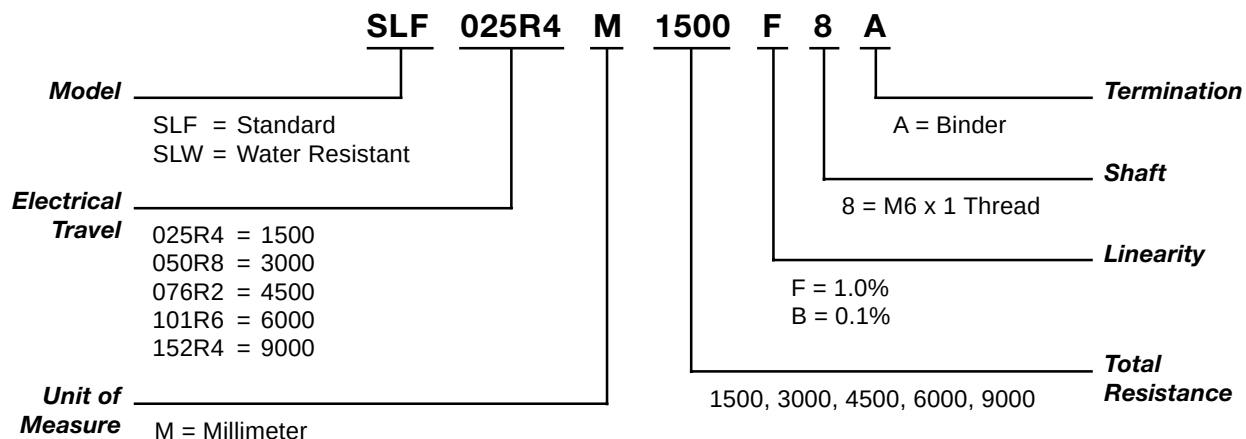
FEATURES

- Precious metal wipers
- 2 mm thick housing with 6 mm shaft
- Shaft seals
- MystR® plastic element
- Absolute continuous measurement
- High performance bearings
- High level DC output

BENEFIT

- Insures high performance, low noise
- Rugged construction for manufacturing environment
- Protects internal components from factory environment
- Tested up to 1 billion operations
- Accurate position at power up
- Long life even with side load conditions
- Works with simple controls

HOW TO ORDER



Note: Not all combinations are available. Minimum quantity orders apply. Contact the factory for more details.

Note: The *Total Resistance* is determined by *Electrical Travel*, at 1500 Ohms per 25.4 millimeter.

TECHNICAL SPECIFICATIONS

MECHANICAL

Total Mechanical Travel	See table below
Starting Force*	0.450 kg
Total Weight	0.12 to 0.22 kg
Vibration	20 g / 0.75 mm (rms) 5-2 kHz
Shock	50 g, 11 ms half sine
Backlash	0.025 mm
Life	One Billion operations

ELECTRICAL

Theoretical Electrical Travel	See table below
Independent Linearity**	±1% or ±0.1%
Total Resistance	1500 Ohms/25.4 mm theoretical electrical travel
Resistance Tolerance	±20%
Operating Temperature	-65° to 105°C
Resolution	Infinite
Maximum Applied Voltage	40 Vdc
Recommended Wiper Current	<1 µA
Electrical Connection	Binder Series 681 Connector or equivalent

* Starting Force for SLW 2.3 kg

** Between 5% and 95% of Theoretical Electrical Travel.

Caution: Do not test on an Ohm Meter on the Rx 1 scale or other current devices.

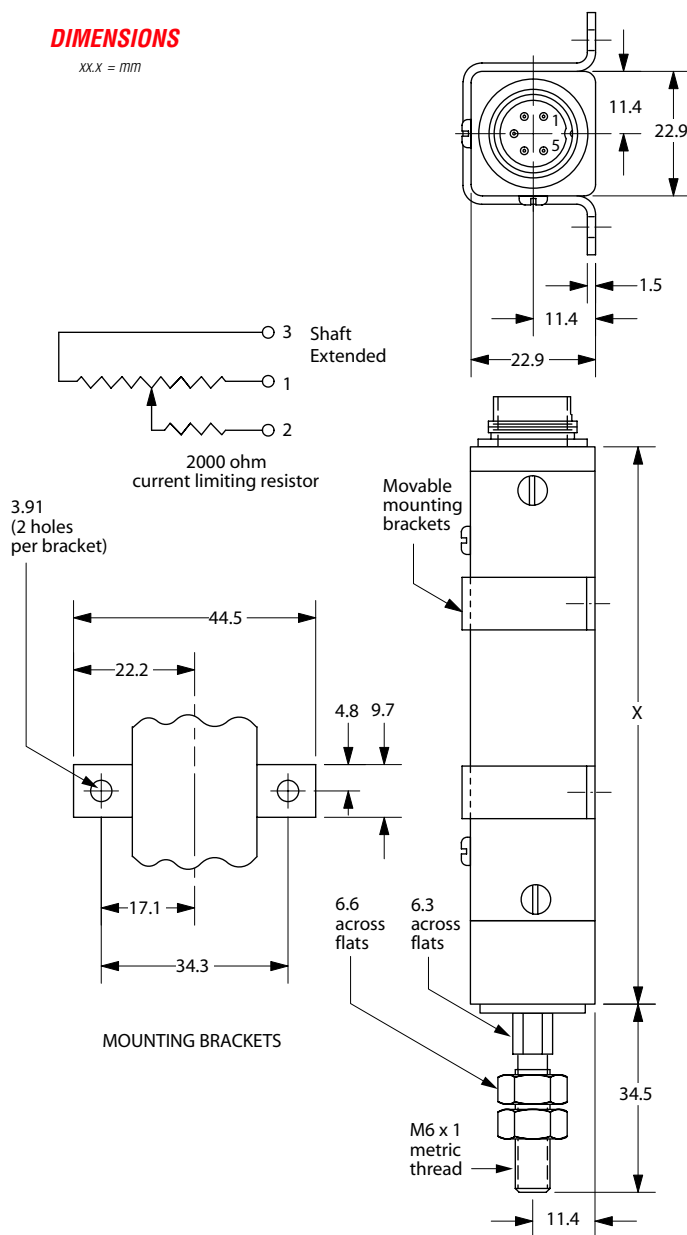
Caution: Excessive Wiper Current can cause Output errors or damage.

Caution: Zero shaft side load is recommended to achieve maximum life.

Model	Electrical Travel in millimeters	Mechanical Travel in millimeters	Total Resistance Ohms	Body Length 'X' in millimeters
SLF025R4 or SLW025R4	25.4	30.5	1500	103
SLF050R8 or SLW050R8	50.8	55.9	3000	128
SLF076R2 or SLW076R2	76.2	80.0	4500	151
SLF101R6 or SLW101R6	101.6	105.4	6000	176
SLF152R4 or SLW152R4	152.4	156.2	9000	227

DIMENSIONS

xx.x = mm



SPECIALS AND ACCESSORIES

- Other Mechanical Travels
- Other Resistance Values
- Other Electrical Travels
- Other Linearity Values

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Item # 1125000 M.G. 10/01

Honeywell

Sensing and Control
Honeywell
100 Discovery Way
Acton, MA 01720 USA



Tel: (877) 384-1300; Fax: (978) 263-0630

www.honeywell.com/sensing/products/di